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DIVISION 09 - FINISHES

SECTION 09920

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SECTION 09920

ARCHITECTURAL PAINTING

PART 1 GENERAL

1.1 SUMMARY

This section covers the general requirements, materials, surface preparation, material preparation, and coating systems for exterior and interior on-site painting, exclusive of corrosion protection of structural steel.

The Contractor shall paint all exposed surfaces, except those for which a factory-applied finish coating is specified, and those which would be damaged or whose function would be impaired by painting. In addition, he shall paint those concealed surfaces which are specifically specified as painted, and those for which painting is required by the NFPA codes and standards. Furthermore, all fire sprinkler piping (exposed or concealed) shall be painted red, as shall the covers of junction boxes and the condulets (connectors of conduit) for fire/smoke alarm wiring.

1.2 SUBMITTALS

The following shall be submitted in accordance with Section 01330, "Submittal Procedures":

SD-03, Data

Manufacturer's Catalog Data

SD-04, Samples

Manufacturer's Standard Color Charts

SD-07, Certificates

Certificates of Compliance

1.3 PROTECTION AND SAFETY REQUIREMENTS

The Contractor shall remove and reinstall, or provide acceptable protection for, materials that may become splattered or damaged by the painting work. "WET PAINT" signs shall be posted to indicate newly painted surfaces.

Rags, paint, and solvents shall be stored in closed metal containers when not in use.

Ladders, stages, scaffolds, and platforms shall comply with OSHA regulations.

PART 2 PRODUCTS

2.1 GENERAL

The following are products that meet the required performance standards.

Other paint manufacturers' products of equal quality will be acceptable when submitted in accordance with SD-03 and SD-04 and approved by the Contracting Officer.

DUNN
EDWARDS

Inhibitive
metal primer

Pigmented
sealer

Latex block
filler

Alkali resistant
primer

Enamel undercoat

Exterior
wood primer

Acrylic
latex, flat

Acrylic latex
gloss

Water base
acrylic epoxy

2.2 VOC CONTENT

All architectural coatings and paints must conform to Bay Area Air Quality Management District (BAAQMD) Regulation 8 for VOC content. The Contractor shall submit product Material Safety Data Sheets to the Contracting Officer for approval prior to use. Exterior painting operations are prohibited when rain is forecast within 24 hours.

2.3 SPRAY PAINTS

The Contractor shall not use aerosol paints unless specifically required by the contract. Aerosol cans are hazardous waste and must be submitted to the government for disposal.

PART 3 EXECUTION

3.1 GENERAL

The manufacturer's recommendations for surface preparation, thinning, mixing, handling, and applying his product shall be considered a part of this specification.

3.2 SURFACE PREPARATION

All surfaces shall be clean, dry, and free from contaminants and foreign matter. Mildew and chalking shall be removed and the surface thoroughly

sterilized. Chipped, peeling, or blistered paint shall be removed and the surface spot-primed. Hard glossy surfaces shall be dulled and roughened to ensure proper adhesion.

Metal surfaces: Oxide or corrosion shall be removed by hand, power tool, or blast cleaning. Surface coating preparation activities are the primary sources of contaminated wash and rinse water. The water from these activities generally contains heavy metals including lead, chromium, and zinc. The Contractor shall containerize wash waters and notify the Contracting Officer to test the water prior to disposal.

Wood surfaces shall be smooth. Knots shall be sealed with a mixture of equal parts of shellac and alcohol. Nail holes, cracks, and other defects shall be filled with plastic wood or putty. Concealed surfaces shall be back-primed before installation.

Masonry surfaces: Large cracks, voids, and other major surface imperfections shall be cleared of loose material and filled with mortar.

Plaster & drywall surfaces: Cracks and other surface imperfections shall be filled with spackling compound and sanded smooth.

3.3 MIXING AND APPLICATION

No exterior painting shall be allowed in rainy weather or when rain is imminent. No paints or coatings shall be applied when the temperature or humidity is outside the limits recommended by the manufacturer.

Paints and coatings shall be applied by brush, roller, or airless spray.

Each coat of material applied shall be free from runs, sags, bubbles, foreign contaminants, dry overspray, brush and roller marks, holidays (missed areas), or other evidence of poor application. Variations in color, gloss, and texture will not be acceptable.

Finish coats shall show good hiding characteristics and uniform appearance.

Newly painted surfaces shall be protected from damage.

Coatings shall be applied as follows:

Material shall be thoroughly stirred to produce a uniform mixture.

Material shall be thinned for workability and improved spray characteristics, but only according to the manufacturer's instructions.

Each coat shall be applied uniformly at the wet-film thickness specified by the manufacturer.

Special attention shall be provided when coating sharp edges, corners, and crevices to ensure complete coverage.

Spot-painting to correct damaged surfaces will be allowed only when touch-up area blends into the surrounding finish. Otherwise, the entire area shall be recoated. Touch-up shall be accomplished using the same method of application as was used to apply the original material.

3.4 ACCEPTANCE PROVISIONS

The Contractor shall be responsible for removal of paint or coating splatter and spills from floors, adjacent walls, hardware, and other finished surfaces.

The Contractor shall leave the work area clean and free from rubbish and accumulated material left from his work.

3.5 PAINT SCHEDULE

The 3 coats specified are minimum. Ensure acceptable paint finishes of uniform color, texture and finish; free from cloudy or mottled appearances in surface; and evident thickness of coatings. The final application shall be so complete that the addition of another coat of paint would not increase the masking characteristics.

<u>UNDERCOAT AND SURFACE</u>	<u>FINISH COLOR PRIMER</u>	<u>FINISH COAT AND SHEET</u>
Interior metal primer	Inhibitive metal	Water-base acrylic epoxy
Interior masonry (rough/porous)	Latex block filler	Water-base acrylic epoxy
Interior masonry (smooth)	Pigmented sealer	Water-base acrylic epoxy
Exterior masonry (rough/porous)	Latex block filler	Acrylic latex
Exterior masonry (smooth)	Alkali- resistant primer	Acrylic latex
Interior wood undercoat	Water-base enamel	Water-base acrylic epoxy
Exterior wood	Exterior wood primer	Acrylic latex
Interior plaster	Pigmented sealer	Water-base acrylic epoxy
Interior drywall	Pigmented sealer	Water-base acrylic epoxy

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